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	Application No.	Applicant(s)	
Al (1 CAH 1111)	10/754,574	FLING ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Dalzid Singh	2613	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this ap i) or other appropriate communication RIGHTS. This application is subject to	plication. If not included will be mailed in due course	
1. This communication is responsive to <u>27 June 2007</u> .			
2. X The allowed claim(s) is/are 1-11 and 33 which have been	renumbered as 1-12 respectively.		
3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Copies of the priority docum	re been received. re been received in Application No comments have been received in this recomments have been received in this recomments have been received in this recommendation to file a reply MENT of this application.  Initial Note the attached EXAMINER' res reason(s) why the oath or declarate st be submitted. Is son's Patent Drawing Review (PTO-S)  S'S Amendment / Comment or in the Other than the deader according to 37 CFR 1.121(c)	national stage application from complying with the requirement S AMENDMENT or NOTICE tion is deficient.	ents OF
attached Examiner's comment regarding REQUIREMENT  Attachment(s)  1. X Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08),		atent Application (PTO-413),	•
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. <b>⊠</b> Examiner's Statemer	DALZID SINGH PRIMARY EXAMINE	≅Ŗ
		Dalaid City	l.

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## Allowable Subject Matter

1. Claims 1-11 and 33 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowable because the prior art of record US Patent No. 5,903,375 to Horiuchi et al does not teach disclose a fibre optic communications network comprising: a fibre optic loop;

an optical time domain reflectometry transceiver connected to one or both ends of the loop, for detecting disturbances to the loop; and

a multiplicity of modulators spaced along the loop and coupled non-intrusively to the fibre optic loop, for transmitting signals into the loop by non-optical local modulation of the fibre optic material; the transceiver being arranged to identify and decode those signals individually using optical time domain reflectometry, whereby telemetry may be performed from the modulators to the transceiver.

Claim 9 is allowable because the prior art of record US Patent No. 5,903,375 to Horiuchi et al does not teach disclose a method of telemetry on a fibre optic loop, using an optical time domain reflectometry transceiver connected to one or both ends of the loop, comprising applying a local modulation, at any one of a plurality of spaced locations along the loop, to transmit a signal non-intrusively into the loop by non-optical local modulation of the fibre optic material, and using the transceiver to identify and decode those signals using optical time domain reflectometry, whereby signals are sent from selected locations along the loop to the transceiver.

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Claim 33 is allowable because the prior art of record US Patent No. 5,903,375 to Horiuchi et al does not teach disclose a fibre optic communications network comprising: a fibre optic loop;

optical time domain reflectometry receiving and transmitting means connected to one or both ends of the loop, for detecting disturbances to the loop; and

modulating means spaced at multiple locations along the loop and coupled nonintrusively to the fibre optic loop, for transmitting signals into the loop by non-optical local modulation of the fibre optic material;

the receiving and transmitting means being arranged to identify and decode those signals individually using optical time domain reflectometry, whereby telemetry may be performed from the modulating means to the receiving and transmitting means.

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Murase et al (US Patent No. 7,139,483) is cited to show optical communication system.

Mortimore et al (US Patent No. 5,010,586) is cited to show optical two-way transmission system with loop reflector modulator.

Imai et al (US Pub. No. 2004/0032642) is cited to show method and system for monitoring distributed Raman optical transmission line.

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Hotate et al (US Patent No. 6,710,863) is cited to show apparatus and method for measuring characteristics of optical fibers.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalzid Singh whose telephone number is (571) 272-3029. The examiner can normally be reached on Mon-Fri 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 14, 2007

PRIMARY EXAMINER

Patrid Singh

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Raphael Valencia on 17 September 2007.

The application has been amended as follows:

Claims 12-32 and 34 have been cancelled.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalzid Singh whose telephone number is (571) 272-3029. The examiner can normally be reached on Mon-Fri 9am - 5pm.

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September 17, 2007

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